

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|------------------------------------|---|------------------|---------|------------------|
| L2 | 341 | "alkenyl ether".ti. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/10/01 08:04 |
| L3 | 26 | ("alkenyl ether" with polymer).ti. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/10/01 08:05 |
| L5 | 1975 | (524/556).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2007/10/01 08:15 |
| L6 | 6503 | (526/317.1,319,333,271,279).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2007/10/01 08:15 |
| L7 | 517 | (560/183).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2007/10/01 08:16 |
| L8 | 1 | 5 and 6 and 7 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/10/01 08:16 |
| S1 | 3735 | Sato-Koichi\$.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:37 |
| S2 | 1 | Nakazawa-Ikuno\$.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:37 |
| S3 | 208 | Suda-Sakae\$.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:39 |

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|-----|-----|--------------------------|---|----|----|------------------|
| S4 | 216 | Ikegami-Masayuki\$.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:39 |
| S5 | 106 | Tsubaki-Keiichiro\$.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:40 |
| S6 | 51 | Higashi-Ryuji\$.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:40 |
| S8 | 85 | Yamagishi-Keiko\$.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:41 |
| S9 | 152 | S1 and polymer and image | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:41 |
| S10 | 100 | S3 and polymer and image | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:42 |
| S11 | 100 | S4 and polymer and image | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:42 |
| S13 | 70 | S5 and polymer and image | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:42 |
| S14 | 36 | S6 and polymer and image | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:42 |
| S15 | 39 | S8 and polymer and image | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:43 |

EAST Search History

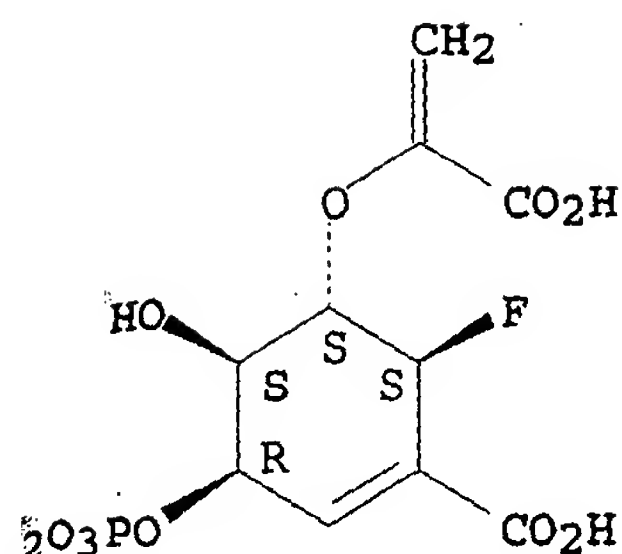
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|-----|------|---|---|----|----|------------------|
| S16 | 4879 | alkenyl adj3 ether | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:44 |
| S17 | 259 | S16 and polymer and image | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:44 |
| S18 | 75 | S17 and fluorine | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:46 |
| S19 | 66 | (alkenyl adj3 ether) with fluorine | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 12:48 |
| S20 | 0 | (alkenyl adj3 ether) same fluorine same ("aromatic carboxylic acid") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 13:07 |
| S21 | 5 | (alkenyl adj3 ether) same fluorine same ("carboxylic acid" with aromatic) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 13:08 |
| S23 | 2 | "4,758,348".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 14:42 |
| S24 | 2 | "5,169,983".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 14:50 |
| S25 | 2 | "5,897,940".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 14:57 |
| S26 | 7 | ("3083238" "3280083" "4321339" "4337211" "4578512").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/23 15:00 |

EAST Search History

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|-----|----|--|--|----|----|------------------|
| S28 | 2 | "20060100310" | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/23 15:03 |
| S34 | 0 | "2006221117" | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/23 15:06 |
| S35 | 1 | "20060221117" | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/23 15:06 |
| S36 | 0 | WO-2001047863\$.did. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/23 15:27 |
| S37 | 0 | WO-200147863\$.did. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/23 15:27 |
| S38 | 5 | Cramp-Michael\$.in. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/23 15:28 |
| S39 | 0 | WO-2001007020\$.did. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/23 15:33 |
| S40 | 0 | WO-2001007020\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/09/23 15:33 |
| S41 | 0 | WO-20010007020\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/09/23 15:33 |
| S42 | 40 | ("4,313,124" or "4,345,262" or "4,459,600" or "4,463,359" or "4,558,333" or "4,723,129" or "4,740,796" or "5,085,698").pn. or ("20050033010" or "20050131102" or "20050140762" or "20050197424" or "20050219277" or "20050239918" or "20050249925" or "20060004124" or "20060100310" or "20060128828") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/09/23 15:48 |
| S43 | 0 | WO-02100918\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/09/23 15:52 |

EAST Search History

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|-----|---|---|--|----|----|------------------|
| S44 | 1 | WO-2002100918\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/09/23 15:53 |
| S45 | 2 | "5,198,319".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 16:04 |
| S46 | 2 | EP-1243624\$.did. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 16:12 |
| S47 | 2 | EP-1285948\$.did. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 16:17 |
| S48 | 2 | "6,380,315".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 18:50 |
| S49 | 2 | EP-556649\$.did. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 18:56 |
| S50 | 1 | "pentafluorobenzoic acid ethyl ester" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 20:13 |
| S51 | 1 | "4-hydroxy-2,3,5,6-tetrafluorobenzoic acid ethyl ester" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2007/09/23 20:14 |



CC 1-5 (Pharmacology)
Section cross-reference(s): 7

IT 170170-99-7
(chorismate synthase catalyzes the conversion of
fluoroenolpyruvylshikimate phosphate to fluorochochismate:
implications for the enzyme mechanism and antimicrobial action of
fluoroshikimate)

IT 137330-49-5
(chorismate synthase catalyzes the conversion of
fluoroenolpyruvylshikimate phosphate to fluorochochismate:
implications for the enzyme mechanism and antimicrobial action of
fluoroshikimate)

L11 ANSWER 25 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:781104 HCAPLUS

DOCUMENT NUMBER: 123:229078

TITLE: Molecular engineering of liquid-crystalline
polymers by 'living' polymerization. Part 31.
Synthesis and 'living' cationic polymerization of
(2R,3S)-2-fluoro-3-methylpentyl
3-fluoro-4'-(ω -vinylalkoxy)biphenyl-4-
carboxylate with undecanyl and octyl alkyl groups

AUTHOR(S): Percec, Virgil; Oda, Hiroji

CORPORATE SOURCE: Dep. Macromol. Sci., Case West. Reserve Univ.,
Cleveland, OH, 44106-7202, USA

SOURCE: Journal of Materials Chemistry (1995), 5(8),
1125-36

CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 08 Sep 1995

AB The synthesis and living cationic polymerization of (2R,3S)-2-fluoro-3-methylpentyl 3-fluoro-4'-(11-vinylundecanyloxy)biphenyl-4-carboxylate (I) and (2R,3S)-2-fluoro-3-methylpentyl 3-fluoro-4'-(8-vinyl-octyloxy)biphenyl-4-carboxylate (II) are described. PolyIs and polyIIs with degrees of polymerization (DP) from 4.5 to 16.7 and polydispersities 1.22 were synthesized and characterized by differential scanning calorimetry (DSC) and thermal optical polarized microscopy. Over the entire range of mol. wts. formed, polyIs and polyIIs exhibit enantiotropic SA and SC* phases. In addition, polyIs with DP 8.7 and polyIIs with DP 10.0 exhibit an unidentified SX mesophase. All polyIs are non-crystallizable, while polyIIs with DP 7.2 exhibit a crystalline phase. I-II copolymers (X:Y) (where X:Y represents the molar ratio of monomer I to monomer II) with DP of ca. 12 and polydispersities lower than 1.22 are also synthesized and characterized. Both the SA and SC* mesophases of these copolymers exhibit continuous dependences over the entire range of copolymer

Composition

168100-33-2P 168100-34-3P 168100-35-4P

(preparation and characterization of)

168100-33-2 HCAPLUS

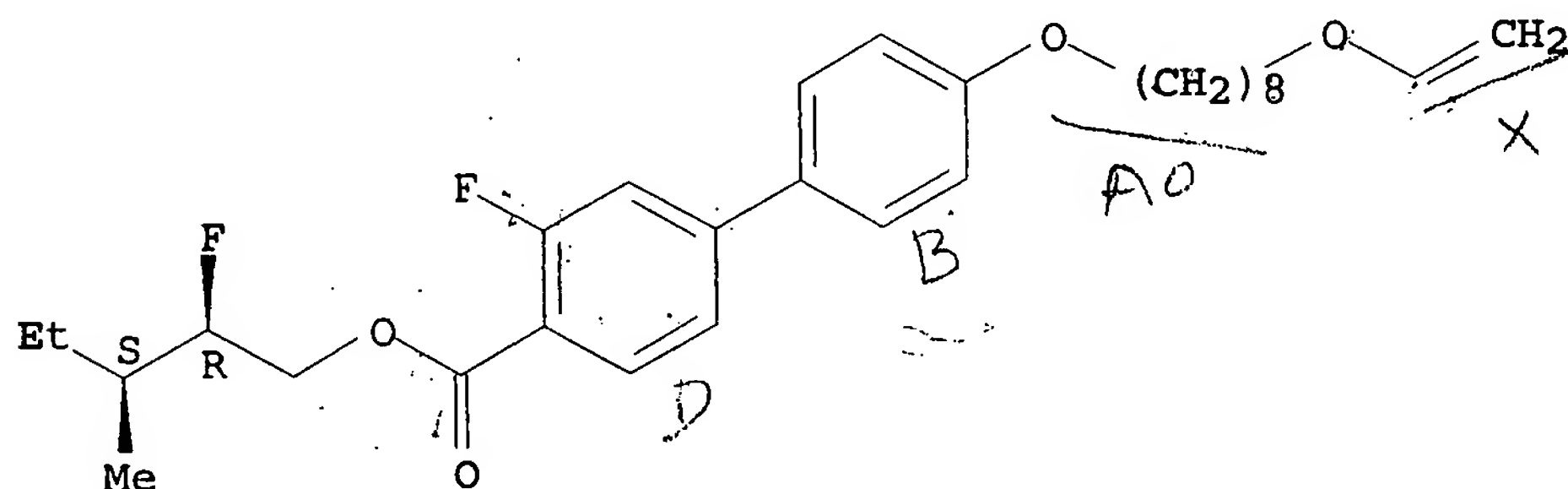
[1,1'-Biphenyl]-4-carboxylic acid, 4'-[[8-(ethenyloxy)octyl]oxy]-2-fluoro-, 2-fluoro-3-methylpentyl ester, [R-(R*,S*)]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 168100-31-0

CMF C29 H38 F2 O4

Absolute stereochemistry.



RN 168100-34-3 HCAPLUS

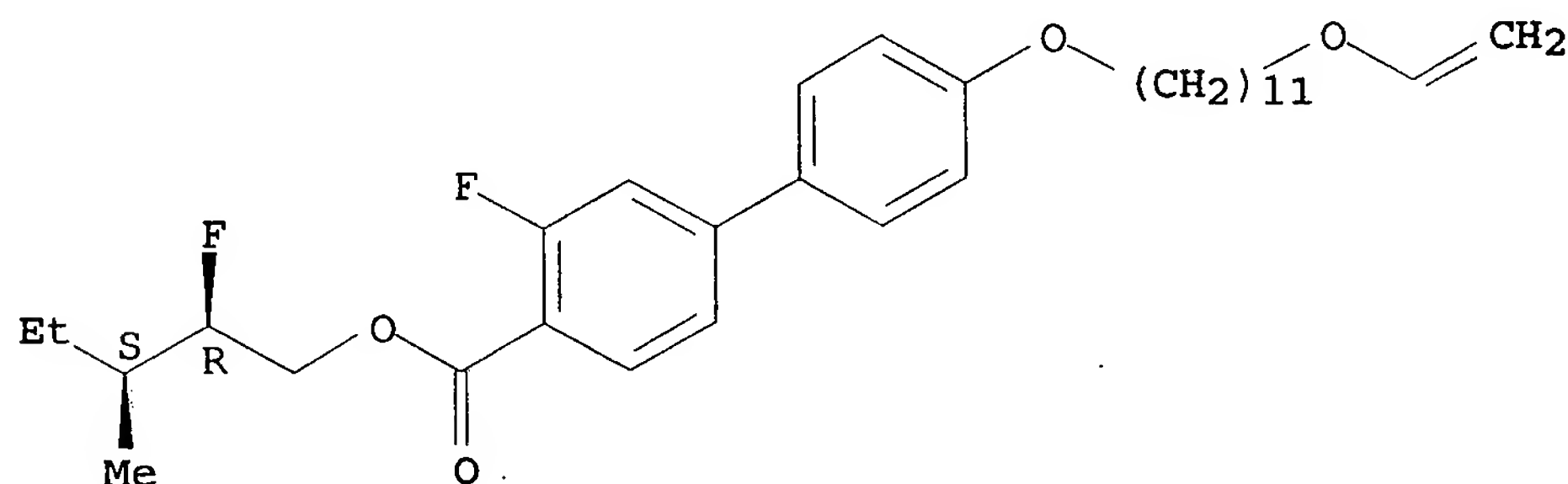
CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[[11-(ethenyloxy)undecyl]oxy]-2-fluoro-, 2-fluoro-3-methylpentyl ester, [R-(R*,S*)]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 168100-32-1

CMF C32 H44 F2 O4

Absolute stereochemistry.



RN 168100-35-4 HCAPLUS

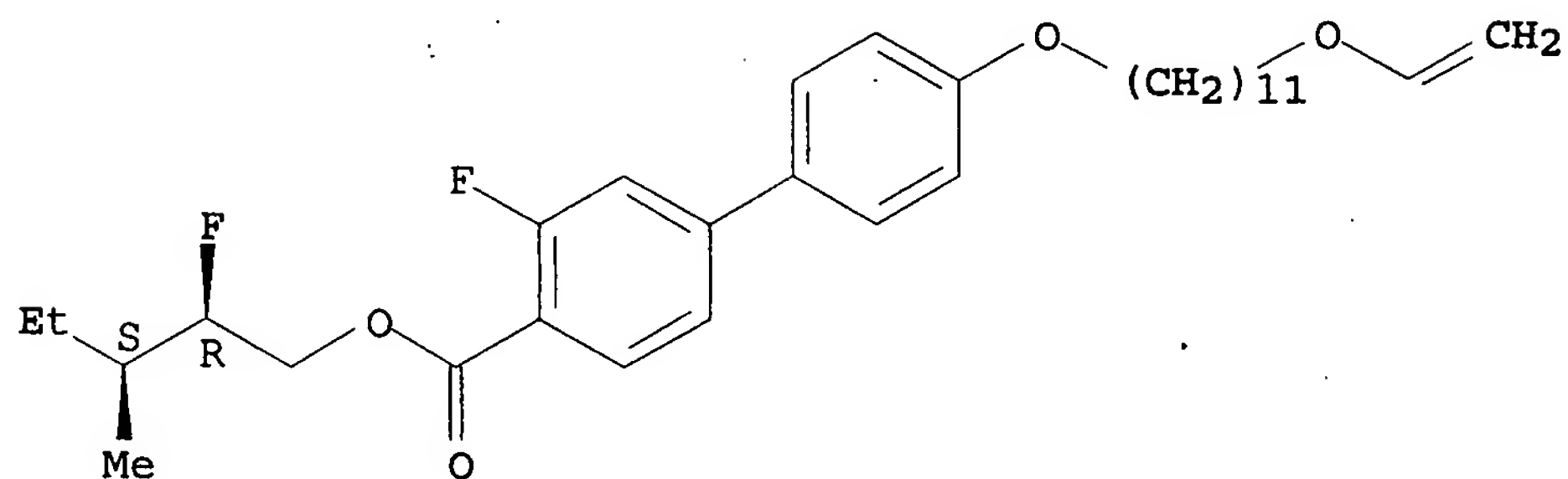
CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-[[8-(ethenyloxy)octyl]oxy]-2-fluoro-, 2-fluoro-3-methylpentyl ester, [R-(R*,S*)]-, polymer with [R-(R*,S*)]-2-fluoro-3-methylpentyl 4'-[[11-(ethenyloxy)undecyl]oxy]-2-fluoro[1,1'-biphenyl]-4-carboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 168100-32-1

CMF C32 H44 F2 O4

Absolute stereochemistry.

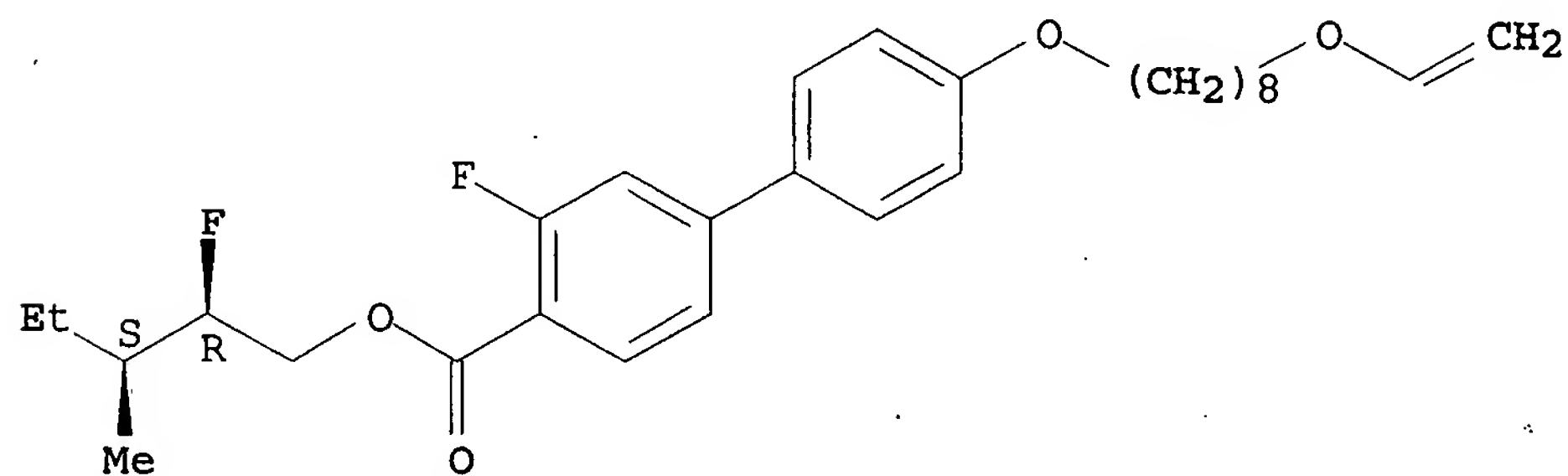


CM 2

CRN 168100-31-0

CMF C29 H38 F2 O4

Absolute stereochemistry.



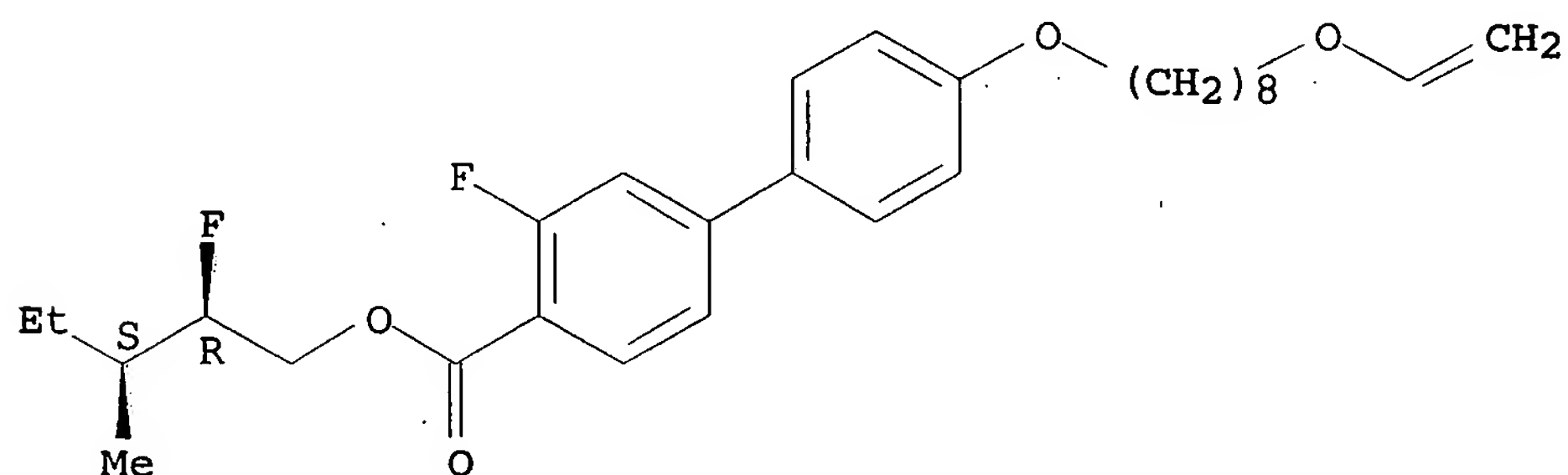
IT 168100-31-0P 168100-32-1P

(preparation and polymerization of)

RN 168100-31-0 HCAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'--[[8-(ethenyloxy)octyl]oxy]-3-fluoro-, 2-fluoro-3-methylpentyl ester, [2R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

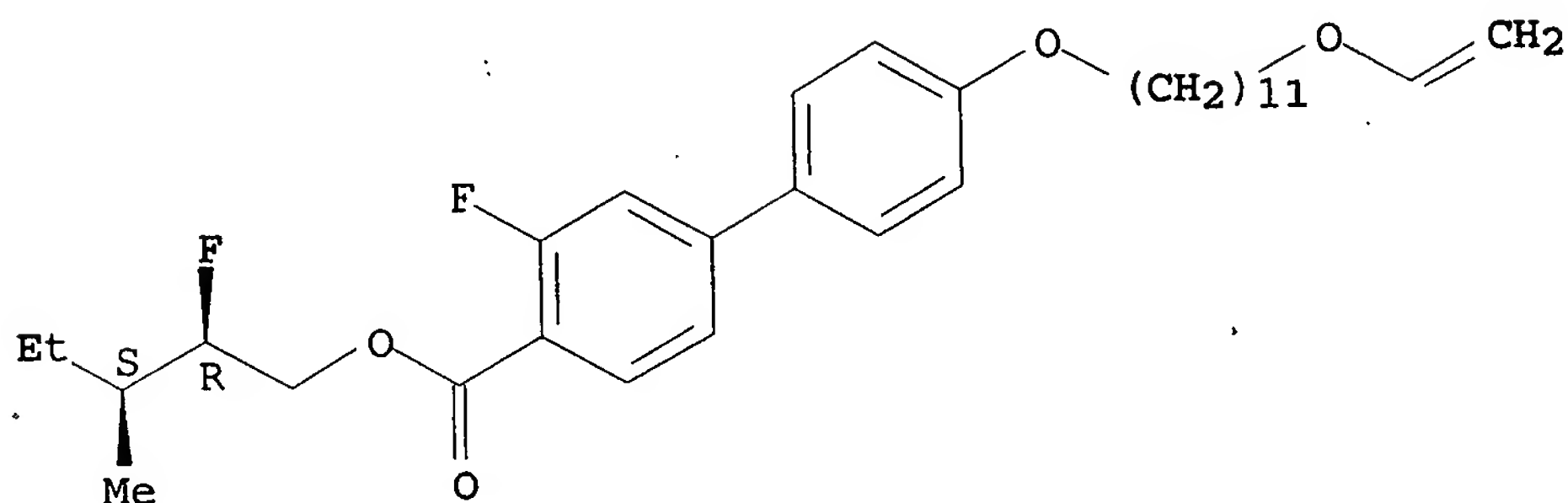


RN 168100-32-1 HCAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'--[[11-(ethenyloxy)undecyl]oxy]-3-fluoro-, 2-fluoro-3-methylpentyl ester, [2R-(R*,S*)]- (9CI) (CA INDEX NAME)

NAME)

Absolute stereochemistry.



CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 75

IT 168100-33-2P 168100-34-3P 168100-35-4P
(preparation and characterization of)

IT 168100-31-0P 168100-32-1P
(preparation and polymerization of)

L11 ANSWER 26 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:468715 HCAPLUS

DOCUMENT NUMBER: 122:205175

TITLE: Preparation of β -heteroaryl- β -oxopropionitriles as insecticides and ectoparasitocides.

INVENTOR(S): Plant, Andrew; Harder, Achim; Erdelen, Christoph

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 42 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

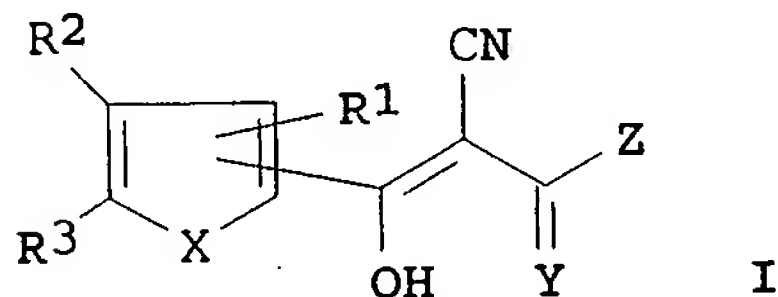
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| DE 4330105 | A1 | 19950309 | DE 1993-4330105 | 19930906 |
| PRIORITY APPLN. INFO.: | | | DE 1993-4330105 | 19930906 |

OTHER SOURCE(S): MARPAT 122:205175

ED Entered STN: 06 Apr 1995

GI



AB The title compds. I [R1,R2,R3=H, halo, CN, NO2, alkyl, heteroalkyl, heteroaryl, etc.; Z= (un)substituted (cyclo)alkyl, aryl, heteroalkyl, heteroaryl, etc.; X,Y= O or S] are prepared as insecticides and